ATENT COOPERATION TREETY

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day month year)
12 January 2000 (12.01.00)

in its capacity as elected Office

International application No. PCT/GB99'02029

Applicant's or agent's file reference P22101/HGR/GMU

International filing date (day month year) 28 June 1999 (28 06 99)

Priority date (day/month year) 27 June 1998 (27.06.98)

Applicant

TURNBULL, Robert, William

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	09 December 1999 (09.12.99)
	in a notice effecting later election filed with the international Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32 2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized vitiger

S Mafla

Facilim le No.: (41-22) 740-14-36

Telephone No.: (41, 22) 338 83, 48.

FENT COOPERATION TREATY

	From th	e_INTERNATIONAL	BUREAU	
PCT	To-			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day month year)	MURGITROYD & COMPANY 373 Scotland Street Glasgow G5 8QA ROYAUME-UNI			
08 January 2001 (08.01.01)			5FCC	
Applicant's or agent's file reference P22101/HGR/GMU		IMPORTANT NO	TIFICATION	
International application No. PCT/GB99/02029	i	nal filing date (day month une 1999 (28 06.99)	year)	
The following indications appeared on record concerning: The applicant the inventor	the agent	the comm	non representative	
Name and Address ERT LIMITED Orkney Water Technology Centre Flotta Stromness		State of Nationality GB Telephone No.	State of Residence GB	
Orkney KW16 3NP United Kingdom		Facsimile No.		
		Teleprinter No		
2. The International Bureau hereby notifies the applicant that the X the person X the name X the add		the nationality	concerning: the residence	
Name and Address NAREMCO TECHNOLOGY INTERNATIONAL LIMITED		State of Nationality GB	State of Residence GB	
Brooklea New Pond Road		Telephone No.		
Compton Guildford GU3 1HX United Lingdom		Facsimile No.		
		Teleprinter No.		
3. Further observations, if necessary: The person indicated in box 1 has assigned his rights to the person in box 2.				
4. A copy of this notification has been sent to:				
the receiving Office the International Searching Authority		the designated Office:		
the International Preliminar, Examining Authority		the elected Offices co.	m erneu	
	Authbrized 6	44,		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	zva, remztrú t	Christine Ca	rrié	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or agent's fil	e reference			See Notific	ation of Transmittal of Internation	nal
P22101/	HGR/GMU	J	FOR FURTHER ACT	TION		Examination Report (Form PC	
Internation	al application	No.	International filing date (day/month/year)		year)	Priority date (day/month/year	-)
PCT/GB99/02029			28/06/1999			27/06/1998	
Internation: B01D17/ Applicant		ssification (IPC) or na	ational classification and IPC				
	ITED et al						
			nination report has been pl according to Article 36.	repared	by this Inte	rnational Preliminary Exam	ining Authority
2. This I	REPORT co	onsists of a total of	f 6 sheets, including this o	cover sh	eet.		
b	een amend	led and are the ba		heets co	ntaining re	n, claims and/or drawings w ctifications made before this ie PCT).	
These	e annexes	consist of a total of	f 3 sheets.				
3. This r	report conta	ains indications rela	ating to the following items	5:			
1	🗵 Basi	s of the report					
Н	[] Prio	rity					
111	□ Non	establishment of c	opinion with regard to nove	elty, inve	entive step	and industrial applicability	
IV	□ Lack	of unity of inventi	on				
V			inder Article 35(2) with reg ons suporting such statem		ovelty, inve	entive step or industrial appli	icability;
VI	☐ Cert	ain documents cit	ed				
VII	VII S Certain defects in the international application						
VIII	⊠ Cert	ain observations o	n the international applica	ation			
					<u> </u>		
Date of sub	omission of th	ne demand	. [Date of co	ompletion of	this report	
09/12/19	09/12/1999			05 10 200	00		
	mailing addre	ess of the international uthority:	al ,	Authorize	d officer		a photo () ta finder
<u>)</u>	European Patent Office D-80298 Munich Tel +49 89 2399 - 0 Tx 523656 epmu d			Persich	ini, C		
	Fax +49 89 2399 - 4465			Telephon	e No. +49 89	2399 8617	(343)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/02029

I. Basis	of the	report

1. This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.): Description, pages: 1-12 as originally filed Claims, No.: 12/07/2000 18/07/2000 with letter of 1-12 as received on Drawings, sheets: 1/2.2/2 as originally filed 2. The amendments have resulted in the cancellation of: ☐ the description. pages: 13-17 Nos.: ★ the claims. ☐ the drawings, sheets: 3. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB99/02029

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-12

No:

Claims

Inventive step (IS)

Yes:

Claims

No:

Claims 1-12

Industrial applicability (IA)

Yes:

Claims 1-12

No:

Claims

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

(3) US-A-4 640 781

Re Item V

Document (3) discloses all the features of the preamble of claim 1: an apparatus 1. (reference signs according to document (3)) for coalescing droplets G of one phase from a fluid comprising two or more phases (cf (3), column 1, lines 5-10), said apparatus comprising a chamber 1, a coalescing medium comprising a plurality of elongate members 5 each having a surface area, a retaining member 12 to which the coalescing medium is secured, an inlet 8 to said chamber, and an outlet 9 from said chamber, said inlet and outlet being positioned such that fluid flowing from said inlet to said outlet flows in a flow direction in contact with said surface area of said coalescing medium ((3), column 3, lines 1-5), the elongate members extending in the flow direction.

Apart from the features of the preamble, document (3) further discloses that the chamber is formed from a "substantially straight pipe" 1A, 1B (see also item VIII, 1 of this report; besides, in document (3) the chamber shape is selected in order to allow a simple in situ purification of the coalescing medium - it is evident that a "straight pipe" would be utilized, if, as in the present application, such a purification was not desired) having a first end 1D and a second end 1C, said outlet 9 being arranged at the first end and an access cover 1C being arranged at the second end. The access cover is adapted to allow removal and replacement of the retaining member 12 and coalescing medium (in order to avoid leakage of the fluid, it is inevitable that according to the application the cover is also "securely sealed" to the second end of the "substantially straight" pipe; in order to introduce the retaining member and the coalescing medium, it is inevitable that the cover 1C is an "access cover", but even if not so, it is evident to provide a removable cover in order to renew the coalescing medium from time to time, if this proves to be necessary).

Consequently, the subject-matter of claim 1 differs from what is disclosed in document (3) merely in that the chamber pipe has an inlet branch.

The inlet construction of the application has the advantage that the fluid entering the coalescer needs not pass the retaining member (formed as a perforated plate), which may cause an undesirable pressure drop. On the other hand,

INTERNATIONAL PRELIMINARY Inte

however, the inlet branch has the disadvantage of an uneven flow distribution which may even culminate in death spaces, and of an incomplete utilization of the length of the elongate members of the coalescing medium. Alternatively, it is also possible to reduce the pressure drop by utilizing an "eye" as retaining member as disclosed in document (3), column 4, lines 7-10. This alternative, however in contrast to the perforated plate, does not allow a homogenous distribution of the elongate coalescing members over the cross section of the pipe and may additionally also lead to an uneven flow distribution.

The different constructions (perforated plate with inlet branch - perforated plate without inlet branch - eye without inlet branch), their advantages (homogenous distribution of the elongate coalescing members and low pressure drop - homogenous distribution of the elongate coalescing members, even flow distribution and complete utilization of the length of the elongate members - low pressure drop, complete utilization of the length of the elongate members) and their disadvantages (uneven flow distribution and incomplete utilization of the length of the elongate members - high pressure drop - uneven flow distribution and inhomogeneous distribution of the elongate coalescing members) are evident for the skilled person. So he selects the possibility of claim 1 without the exercise of any inventive skill, if he is prepared to accept the disadvantages connected to this construction.

Claim 1 does, therefore, not meet the requirements of Art. 33(3) PCT.

- 2. As it is evident that the non-inventive coalescing apparatus of claim 1 is to be utilized in the way defined in method claim 10, the subject-matter of this claim does also not meet the requirements of Art. 33(3) PCT.
- 3. In the light of the cited document and the general knowledge of the skilled person the features of the dependent claims appear to be either known or result in an evident manner from the circumstances and design considerations.

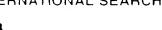
Re Item VII

The description is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT.

Re Item VIII

The present set of claims does not meet the requirements of Art. 6 PCT.

- 1. The expression "substantially" preceding some of the constructional features of independent claims 1 and 10 (and of the dependent claims, as well) renders the claims unclear. It goes without saying that embodiments with minor deviations from the perfect realization of a claimed geometrical shape are also included by such a feature. However, the introduction of the term "substantially" suggests that important deviations shall also be possible, so that the features in question do not at all mean a restriction for the claimed subject-matter.
- 2. The features of claim 2 seem to be redundant with regard to the features of claim 1. Therefore, claim 2 is unclear and renders claim 1 also unclear.
- 3. Page 5, lines 6-11 seems to be in contradiction to independent claim, rendering thus this claim unclear.
- 4. The imprecise statement in the description on page 12, lines 18-21 implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Art. 6 PCT) when used to interpret them (see also the PCT Guidelines, III-4.3a).





A CLASSIFICATION OF SUBJECT MATTER IPC 6 801017/04 0100 C10G33/06 B01D45/08 B01D39/16 A in round to intermational flatent was observed. Fig. in the parents on a graph data in and find **B. FIELDS SEARCHED** lass that in lystemic triwed by plass fluitum symethy. IPC 6 BOID ClOG 200 imentation searched other than minimum documentation to the extent that such documents are included lin the fields searched Electronic data base consulted during the international search, name of data base and liwhere practical (earch terms uped) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate of the relevant passages Relevant to claim No US 4 640 781 A (HUGHES VICTOR B) χ 1-10.123 February 1987 (1987-02-03) 14 - 17column 1, line 66 -column 4, line 10; figure US 3 810 832 A (RHODES H) χ 1,10,12, 14 May 1974 (1974-05-14) 14 - 17cited in the application column 3. line 5-9; figures 8.9 DE 31 11 554 A (SOFRANCE SA) χ 1,14 8 April 1982 (1982-04-08) page 4, line 1-3; figure χ GB 970 518 A (TEACO INDUSTRIAL CORP.) 1,2,10, 23 September 1964 (1964-09-23) page 1, line 74 -page 2, line 8 -/--Further documents are listed in the continuation of box C Χ Χ Patent family members are isted in annex Special categories of cited documents Tileater document published after the international filing date or priority date and not in conflict with the application but A document defining the general state of the lart which is not oited to understand the principle or theory, underlying the nivention considered to be of particular relevance Ellearlier document but published on or after the international X document of particular relevance, the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken gione document which may throw doubts on priority islaim(s) or which is cited to establish the publication date of another obtain or other special reason (as ispecified) document of particular relevance, the claimed invention cannot be considered to involve an inventive, step when the document is combined with one or more other, such docu-O document referring to an oral disclosure use, exhibition or other means ments, such combination being obvious to all person skilled. P" document published prior to the international. filing date but after than the priority date claimed. 8 document member of the same patent family Cate of the actual completion of the international search Date of making of the international search report 6 October 1999 20/10/1999 Name and mailing address of the ISA Authorized officer European Patent Office IPIB 6818 Patentiaan 2 NE - 2280 HV Riswijk Tei - 451-70 (340-2940 Tx 31 661 epoint Fax - 431-70 (340-3016 Persichini, C

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international Application No. P.17. GE 99 02029

Continuation DOCUMENTS CONSIDERED TO BE RELEVANT reginal District of a coment with a plant of where appropriate of the relevant bial case.	······································
US 3 405 511 A (HALTER EDMUND J ET AL) 15 October 1968 (1968-10-15) figures	1.14
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nternational Application No. PCT IGB 93/02029

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US	4640781	A	03-02-1987	CA 1252054 A DE 3524640 A DK 314185 A.B. GB .161395 A.B NL 8502005 A	04-04-1989 23-01-1986 13-01-1986 15-01-1986 03-02-1986
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DE	3111554	A /	08-04-1982	FR 2481140 A GB 2077612 A IT 1135695 B JP 56166908 A	30-10-1981 23-12-1981 27-08-1986 22-12-1981
GE	970518	Α	/	NONE	
US	3405511	Α	15-10-1968	DE 1619839 A FR 1522987 A US 3517486 A	14-01-1971 23-08-1968 30-06-1970

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

MURGITROYD & COMPANY
373 Scotland Street
Glasgow G5 8QA
GRANDE BRETAGNE

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Rule 71.1)

Date of mailing (day/month/year)

05.10.2000

Applicant's or agent's file reference

P22101/HGR/GMU
International application No.

PCT/GB99/02029

International filing date (day/month/year)

28/06/1999

Priority date (day/month/year)

IMPORTANT NOTIFICATION

27/06/1998

Applicant

ERT LIMITED et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

Ipinazar, P

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Fax: +49 89 2399 - 4465

Tel +49 89 2399-8131



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INTERNATIONAL SEARCH REPORT

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Dox !!! TEXT OF THE ABSTRACT | Continuation of item 5 of the first sheet:

A two phase liquid media coalescer comprises a chamber such as a pipe 11, which may be fitted into a process system by way of pressure sealable fittings (23, 24). Contained within the chamber is a coalescer media (5) manufactured from fibres of polypropylene or other material. One end of the fibres may be secured to a media retaining plate (4). The fibres extend through the chamber in the direction of flow and are free at their other end. A two phase liquid enters the pipe and contacts the surface area of the fibres while passing through, thereby forming droplets of the minority phase of the liquid on the fibres.

Form PCT 1SA,C10, continuation of first one et 2 - July 1338



-PCT Article 18 and Rules 43 and 44

International Expectation for International Hingshare assumption peaks Expect Packet Date Dat	Applicant's or agent sittle reference P22101/HGR/GMU	FOR FURTHER See Notification Form PCT ISA	of Transmittal of International Search Robert 220) as well as where applicable, dentify below
ERT LIMITED et al. This international Search Report has been propored by this international Searching Authority and is transmitted to the lapplicant according to Assess A according to Assess being fundamented to the international Bursau. This international Search Report consists of a total of A sheets X It is also accompanied by a copy of each prior and document ofted in this report. Basis of the report	mernational application No	international filing date rday month year.	-Earliest) Priority Date rulay month year
ERT LIMITED et al. This international Search Report has been prepared by this informational Searching Authority and is transmitted to the applicant according to Aircle 18. A copy is being furnismitted in the International Bureau. This International Search Report consists of a total of	PCT/GB 99/02029	28/06/1999	27/06/1998
This International Search Report consists of a total of . 4 sheets It is also accompanied by a copy of each prior and document ofted in this report. 1. Basis of the report. a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filled, unless otherwise indicated under this term. The international search was carried out on the basis of a translation of the international application furnished to this Authority. (Fulle 23-1b)) b. With regard to day purcleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence issuing contained in the international application in computer readable form. If the statement will the international application in computer readable form turnished subsequently to this Authority in written form. If the statement that the information recorded in computer readable form is identical to the written sequence issuing as the statement that the information recorded in computer readable form is identical to the written sequence issuing has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence issuing has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence issuing has been furnished. With regard to the title. The test it as percoved as submitted by the applicant. The test it as percoved as submitted by the applicant. The test it as percoved as submitted by the applicant. The test it as percoved as submitted by the applicant to the test is approved as submitted by the applicant to read as follows: COALESCER. The figure of the drawings to be oblished according to figure it. The figure of the drawings to be oblished according to figure it. The figure of the drawings to be oblished with the abstract is figure it.			
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4. With regard to the title. the text is approved as submitted by the applicant. X the text has been established by this Authority to read as follows: COALESCER 5. With regard to the abstract. the text is approved as submitted by the applicant. The text has been established, according to Rule 38.2 bit by this Authority as it appears in Box 10. The applicant may within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure 160. as suggested by the applicant because the applicant failed to suggest a figure.		e information recorded in computer readable form	is identical to the written sequence listing has been
4. With regard to the title. the text is approved as submitted by the applicant. X the text has been established by this Authority to read as follows: COALESCER 5. With regard to the abstract. the text is approved as submitted by the applicant. the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2 by by this Authority as it appears in Box 11. The applicant may within one month from the date of mailing of this international search report, submit comments to this Authority. 6. The figure of the drawings to be published with the abstract is Figure 1/10. as suggested by the applicant, because the applicant failed to suggest a figure.	2 Certain claims were	found unsearchable (See Box I)	
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X because this figure better characterizes the invention	because the applican	t failed to suggest a figure.	
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